

## Table H. - Engineering Index Properties

Hanover County, Virginia

Absence of an entry indicates that the data were not estimated.

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
1B: Abell	0-15	Fine Sandy Loam	SC SC-SM SM	A-2 A-4	0	0	90-100	85-100	60-85	34-55	12-23	NP-10
	15-27	Sandy Clay Loam Clay Loam	CL CL-ML SC	A-2 A-4 A-6	0	0	90-100	85-100	68-100	30-80	23-38	6-14
	27-39	Clay Loam Sandy Clay Loam Clay	CH CL	A-6 A-7	0	0-8	95-100	93-100	74-100	32-95	34-52	12-22
	39-60	Loam Sandy Clay Loam Clay Loam Sandy Loam	CL-ML ML SM	A-2 A-4	0	0-8	95-100	93-100	74-100	32-80	16-31	2-10
Appling	---				---	---	---	---	---	---	---	---
Cecil	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
Pamunkey variant	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
1B:												
Vance	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
2:												
Altavista	0-18	Fine Sandy Loam	CL-ML ML SC-SM SM	A-4	0	0	100	100	70-85	40-55	16-25	2-7
	18-41	Loam Sandy Loam Clay Loam Sandy Clay Loam	CL CL-ML SC SC-SM	A-4 A-6	0	0	100	100	60-100	30-80	20-31	5-14
	41-79	Loamy Sand Sandy Loam Clay Loam Gravelly Loamy Sand	CL CL-ML SC SC-SM SM	A-2 A-4 A-6	0	0	80-100	70-100	35-100	10-80	10-30	NP-14
Aquults	---				---	---	---	---	---	---	---	---
Bolling variant	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Forestdale	---				---	---	---	---	---	---	---	---
Fork	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
2:												
Myatt variant	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
3B:												
Appling	0-8	Fine Sandy Loam	SC-SM	A-2	0	0-8	85-100	80-100	56-85	32-55	9-20	NP-2
	8-52	Sandy Clay Sandy Clay Loam Clay Loam Clay	SM ML	A-4 A-4 A-7	0	0-8	85-100	80-100	64-100	28-95	27-49	4-12
	52-60	Sandy Loam Sandy Clay Loam Loam	---	---	0	0-8	85-100	80-100	48-95	24-75	13-24	NP-3
Abell	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
3B:												
Varina	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
3C2:												
Appling	0-8	Fine Sandy Loam	SC-SM	A-2	0	0-8	85-100	80-100	56-85	32-55	9-20	NP-2
	8-52	Sandy Clay Sandy Clay Loam Clay Loam Clay	SM ML	A-4 A-4 A-7	0	0-8	85-100	80-100	64-100	28-95	27-49	4-12
	52-60	Sandy Clay Loam Loam Sandy Loam	---	---	0	0-8	85-100	80-100	48-95	24-75	13-24	NP-3
Abell	---				---	---	---	---	---	---	---	---
Ashlar	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---

4B:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
4B:												
Appling	0-8	Gravelly Fine Sandy Loam	SC-SM	A-2	0	0-8	70-100	62-100	42-85	24-55	9-20	NP-2
	8-52	Sandy Clay Loam	SM	A-4								
		Clay	ML	A-4	0	0-8	85-100	80-100	64-100	28-95	27-49	4-12
		Clay Loam		A-7								
		Sandy Clay										
	52-60	Sandy Clay Loam	---	---	0	0-8	85-100	80-100	48-95	24-75	13-24	NP-3
		Sandy Loam										
		Loam										
Bourne	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Edgehill variant	---				---	---	---	---	---	---	---	---
4C:												
Appling	0-8	Gravelly Fine Sandy Loam	SC-SM	A-2	0	0-8	70-100	62-100	42-85	24-55	9-20	NP-2
			SM	A-4								
	8-52	Sandy Clay	ML	A-4	0	0-8	85-100	80-100	64-100	28-95	27-49	4-12
		Clay Loam		A-7								
		Clay										
		Sandy Clay Loam										
	52-60	Loam	---	---	0	0-8	85-100	80-100	48-95	24-75	13-24	NP-3
		Sandy Clay Loam										
		Sandy Loam										
Abell	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
4C:												
Edgehill variant	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
5C:												
Appling	0-8	Fine Sandy Loam	SC-SM	A-2	0	0-8	85-100	80-100	56-85	32-55	9-20	NP-2
	8-52	Sandy Clay Loam	SM	A-4								
		Clay Loam	ML	A-4	0	0-8	85-100	80-100	64-100	28-95	27-49	4-12
		Clay		A-7								
		Sandy Clay										
	52-60	Sandy Clay Loam	---	---	0	0-8	85-100	80-100	48-95	24-75	13-24	NP-3
		Loam										
		Sandy Loam										
Ashlar	0-11	Sandy Loam	SC-SM	A-1	0	0-15	70-100	63-100	37-70	18-40	9-16	NP
			SM	A-2								
				A-4								
	11-30	Gravelly Sandy Loam	GC-GM	A-1	0	0-15	70-100	63-100	37-70	18-40	9-16	NP
		Sandy Loam	GM	A-2								
			SC-SM	A-4								
			SM									
	30-34	Bedrock	---	---	---	---	---	---	---	---	---	---
Edgehill variant	---				---	---	---	---	---	---	---	---
Rock Outcrop	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
5C:												
6:												
Aquults	0-6	Silt Loam Loam	CL-ML SC-SM	A-4	0	0	90-100	85-100	60-100	35-90	21-28	4-10
	6-8	Fine Sandy Loam Silty Clay Loam Clay Loam	CL	A-6 A-7-6	0	0	90-100	85-100	75-100	60-95	30-44	11-22
	8-50	Silty Clay Loam Clay Loam Silty Clay Clay	CH CL	A-7-6	0	0	90-100	85-100	75-100	60-95	44-66	22-39
	50-65	Clay Stratified Very Gravelly Sand To Clay	CH CL-ML GC-GM ML SM	A-1-b A-2-4 A-4 A-6 A-7-6	0	0-5	40-100	35-100	20-100	2-95	16-57	NP-32
Colfax	---				---	---	---	---	---	---	---	---
Coxville	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---

7:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
7: Atlee	0-9	Loam	CL-ML ML	A-4	0	0	100	100	85-95	60-75	13-20	NP-4
	9-27	Silt Loam Clay Loam Loam Silty Clay Loam	CL CL-ML	A-4 A-6	0	0	100	100	85-100	60-95	16-34	2-12
	27-52	Clay Loam Loam Silt Loam Silty Clay Loam	CL CL-ML	A-4 A-6	0	0	100	100	85-100	60-95	23-31	6-14
	52-79	Silt Loam Clay Loam Loam Clay Silty Clay Loam Sandy Clay Loam	CL	A-6	0	0	100	100	85-100	60-95	25-40	7-20
Bourne	---				---	---	---	---	---	---	---	---
Coxville	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---

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**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
8: Augusta	0-7	Fine Sandy Loam	ML SC-SM SM	A-2 A-4	0	0	90-100	85-100	60-85	34-55	10-25	NP-7
	7-50	Loam Sandy Loam Sandy Clay Loam Clay Loam	CL CL-ML	A-4 A-6	0	0	90-100	85-100	51-100	26-80	20-34	4-14
	50-76	Loam Sandy Loam Loamy Sand Gravelly Loamy Sand	ML SC-SM SM	A-2 A-4	0	0	60-99	56-98	28-94	8-74	12-25	NP-7
Altavista	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Kenansville variant	---				---	---	---	---	---	---	---	---
Myatt variant	---				---	---	---	---	---	---	---	---
Rains	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Coxville	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---

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**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
9:												
Bolling variant	0-11	Gravelly Sandy Loam	GM	A-1	0-2	0-8	60-75	50-70	30-49	15-28	10-25	NP-7
			SM	A-2								
	11-35	Gravelly Sandy Loam	GC	A-1	0-2	0-8	35-60	23-50	13-45	7-28	16-34	2-12
		Very Gravelly Sandy Clay Loam	SM	A-2								
		Very Gravelly Sandy Loam										
		Extremely Gravelly Sandy Loam										
	35-64	Very Gravelly Sand	GC	A-1	0-2	0-8	35-60	23-50	11-45	1-28	9-34	NP-12
		Sand	SM	A-2								
		Gravelly Sandy Clay Loam										
Augusta	---				---	---	---	---	---	---	---	---
Altavista	---				---	---	---	---	---	---	---	---
10B:												
Bourne	0-13	Fine Sandy Loam	CL-ML	A-2	0	0	80-100	80-100	56-85	32-55	10-25	NP-7
			ML	A-4								
			SC-SM									
			SM									
	13-24	Sandy Clay Loam	CL	A-2	0	0	80-100	80-100	64-100	28-80	25-32	7-14
		Clay Loam	SC	A-6								
	24-68	Sandy Clay Loam	CL	A-2	0	0	80-100	80-100	48-90	24-55	20-30	4-14
		Sandy Loam	SC	A-4								
			SC-SM	A-6								
	68-76	Clay	CL	A-2	0	0	80-100	80-100	48-100	24-95	10-61	3-27
		Clay Loam	SC	A-4								
		Sandy Loam	SM	A-6								
		Loam		A-7								
Atlee	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
10B:												
Dogue	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Augusta	---				---	---	---	---	---	---	---	---
Caroline	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Coxville	---				---	---	---	---	---	---	---	---
Creedmoor	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Mayodan	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Pamunkey	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
10B:												
10C:												
Bourne	0-13	Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	80-100	80-100	56-85	32-55	10-25	NP-7
	13-24	Clay Loam	CL	A-2	0	0	80-100	80-100	64-100	28-80	25-32	7-14
		Sandy Clay Loam	SC	A-6								
	24-68	Sandy Loam	CL	A-2	0	0	80-100	80-100	48-90	24-55	20-30	4-14
		Sandy Clay Loam	SC	A-4								
			SC-SM	A-6								
	68-76	Loam	CL	A-2	0	0	80-100	80-100	48-100	24-95	10-61	3-27
		Clay	SC	A-4								
		Sandy Clay	SM	A-6								
		Sandy Loam		A-7								
		Sandy Clay Loam										
		Clay Loam										
Abell	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
10C: Varina	---				---	---	---	---	---	---	---	---
11B: Bourne	0-13	Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	80-100	80-100	56-85	32-55	10-25	NP-7
	13-24	Clay Loam Sandy Clay Loam	CL SC	A-2 A-6	0	0	80-100	80-100	64-100	28-80	25-32	7-14
	24-68	Sandy Loam Sandy Clay Loam	CL SC SC-SM	A-2 A-4 A-6	0	0	80-100	80-100	48-90	24-55	20-30	4-14
	68-76	Clay Loam Sandy Clay Sandy Clay Loam Loam Sandy Loam Clay	CL SC SM	A-2 A-4 A-6 A-7	0	0	80-100	80-100	48-100	24-95	10-61	3-27
Varina	0-7	Gravelly Sandy Loam Sandy Loam	SC-SM SM	A-1 A-2	0	0-8	60-95	55-93	33-65	16-37	9-20	NP-2
	7-65	Very Gravelly Clay Loam Very Gravelly Sandy Clay Loam Clay Loam Gravelly Clay Loam	GM ML SM	A-4	0	0-8	15-100	5-100	4-100	3-80	31-34	5-7
Colfax	---				---	---	---	---	---	---	---	---
Creedmoor	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
11B:												
Norfolk	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Appling	---				---	---	---	---	---	---	---	---
Mayodan	---				---	---	---	---	---	---	---	---
11C:												
Bourne	0-13	Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	80-100	80-100	56-85	32-55	10-25	NP-7
	13-24	Clay Loam	CL	A-2	0	0	80-100	80-100	64-100	28-80	25-32	7-14
		Sandy Clay Loam	SC	A-6								
	24-68	Sandy Clay Loam	CL	A-2	0	0	80-100	80-100	48-90	24-55	20-30	4-14
		Sandy Loam	SC	A-4								
			SC-SM	A-6								
	68-76	Sandy Clay	CL	A-2	0	0	80-100	80-100	48-100	24-95	10-61	3-27
		Sandy Clay Loam	SC	A-4								
		Loam	SM	A-6								
		Sandy Loam		A-7								
		Clay										
		Clay Loam										

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
11C:												
Varina	0-7	Gravelly Sandy Loam	SC-SM	A-1	0	0-8	60-95	55-93	33-65	16-37	9-20	NP-2
		Sandy Loam	SM	A-2								
	7-65	Very Gravelly Sandy Clay	GM	A-4	0	0-8	15-100	5-100	4-100	3-80	31-34	5-7
		Loam	ML									
		Very Gravelly Clay Loam	SM									
		Clay Loam										
		Gravelly Clay Loam										
Appling	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
12B:												
Caroline	0-8	Fine Sandy Loam	CL-ML	A-2	0	0	90-100	85-100	60-85	34-55	16-25	2-7
			ML	A-4								
			SC-SM									
			SM									
	8-78	Sandy Clay	CH	A-6	0	0	90-100	85-100	72-100	38-95	30-56	14-24
		Clay	CL	A-7								
		Clay Loam										
Atlee	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
12B:												
Suffolk	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
12D2:												
Caroline	0-8	Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	90-100	85-100	60-85	34-55	16-25	2-7
	8-78	Sandy Clay Clay Clay Loam	CH CL	A-6 A-7	0	0	90-100	85-100	72-100	38-95	30-56	14-24
Faceville	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
13B2:												



**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
13B2:												
Caroline	0-8	Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	90-100	85-100	60-85	34-55	16-25	2-7
	8-78	Sandy Clay Clay Clay Loam	CH CL	A-6 A-7	0	0	90-100	85-100	72-100	38-95	30-56	14-24
Dogue	0-11	Loam	ML SM	A-4	0	0	90-100	85-100	68-95	48-75	12-20	NP-4
	11-51	Clay Loam Clay	CH CL	A-6 A-7	0	0	90-100	85-100	76-100	60-95	30-52	10-22
	51-79	Sandy Clay Loam Sandy Clay Clay Loam Sandy Loam Clay Loam	ML SC SC-SM SM	A-2 A-4	0	0	90-100	85-100	51-100	26-95	12-52	NP-22
Atlee	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---

### Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
13C2:												
Caroline	0-8	Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	90-100	85-100	60-85	34-55	16-25	2-7
	8-78	Sandy Clay Clay Loam Clay	CH CL	A-6 A-7	0	0	90-100	85-100	72-100	38-95	30-56	14-24
Dogue	0-11	Loam	ML SM	A-4	0	0	90-100	85-100	68-95	48-75	12-20	NP-4
	11-51	Clay Clay Loam	CH CL	A-6 A-7	0	0	90-100	85-100	76-100	60-95	30-52	10-22
	51-79	Sandy Clay Loam Sandy Clay Clay Sandy Loam Loam Clay Loam	ML SC SC-SM SM	A-2 A-4	0	0	90-100	85-100	51-100	26-95	12-52	NP-22
Bourne	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
13C2: Suffolk	---				---	---	---	---	---	---	---	---
14B2: Cecil	0-5	Fine Sandy Loam	SC-SM SM	A-2 A-4	0	0	90-100	85-100	60-85	34-55	9-20	NP-2
	5-53	Clay Loam Clay	MH ML	A-5 A-7	0	0	90-100	85-100	76-100	60-95	31-56	5-14
	53-60	Clay Loam Loam	ML SM	A-4	0	0	85-100	80-99	68-99	48-79	13-34	NP-7
Abell	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Fluvanna	---				---	---	---	---	---	---	---	---
Kenansville	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---

## Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
14B2:												
14C2:												
Cecil	0-5	Fine Sandy Loam	SC-SM	A-2	0	0	90-100	85-100	60-85	34-55	9-20	NP-2
			SM	A-4								
	5-53	Clay Loam	MH	A-5	0	0	90-100	85-100	76-100	60-95	31-56	5-14
		Clay	ML	A-7								
	53-60	Loam	ML	A-4	0	0	85-100	80-99	68-99	48-79	13-34	NP-7
		Clay Loam	SM									
Abell	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Fluvanna	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
14C2: Worsham	---				---	---	---	---	---	---	---	---
15B2: Cecil	0-5	Gravelly Sandy Loam	SC-SM	A-1	0	0	70-85	63-75	37-52	18-30	9-20	NP-2
	5-53	Clay Loam	SM	A-2								
		Clay	MH	A-5	0	0	90-100	85-100	76-100	60-95	31-56	5-14
		Clay	ML	A-7								
	53-60	Loam	ML	A-4	0	0	85-100	80-99	68-99	48-79	13-34	NP-7
		Clay Loam	SM									
Vance	0-12	Gravelly Sandy Loam	SC-SM	A-1	0	0-8	70-100	63-75	36-52	18-30	11-20	NP-2
			SM	A-2								
	12-48	Sandy Clay	ML	A-4	0	0-8	90-100	80-100	72-100	56-95	31-49	5-12
		Clay Loam		A-7								
		Clay										
	48-68	Loam	ML	A-4	0	---	90-100	80-100	68-100	48-80	14-34	NP-7
		Clay Loam										
Abell	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Fluvanna	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---

15C2:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
15C2:												
Cecil	0-5	Gravelly Sandy Loam	SC-SM	A-1	0	0	70-85	63-75	37-52	18-30	9-20	NP-2
			SM	A-2								
	5-53	Clay	MH	A-5	0	0	90-100	85-100	76-100	60-95	31-56	5-14
		Clay Loam	ML	A-7								
	53-60	Loam	ML	A-4	0	0	85-100	80-99	68-99	48-79	13-34	NP-7
		Clay Loam	SM									
Vance	0-12	Gravelly Sandy Loam	SC-SM	A-1	0	0-8	70-100	63-75	36-52	18-30	11-20	NP-2
			SM	A-2								
	12-48	Clay Loam	ML	A-4	0	0-8	90-100	80-100	72-100	56-95	31-49	5-12
		Clay		A-7								
		Sandy Clay										
	48-68	Clay Loam	ML	A-4	0	---	90-100	80-100	68-100	48-80	14-34	NP-7
		Loam										
Bourne	---				---	---	---	---	---	---	---	---
Fluvanna	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---
15D2:												
Cecil	0-5	Gravelly Sandy Loam	SC-SM	A-1	0	0	70-85	63-75	37-52	18-30	9-20	NP-2
			SM	A-2								
	5-53	Clay Loam	MH	A-5	0	0	90-100	85-100	76-100	60-95	31-56	5-14
		Clay	ML	A-7								
	53-60	Clay Loam	ML	A-4	0	0	85-100	80-99	68-99	48-79	13-34	NP-7
		Loam	SM									

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
15D2:												
Vance	0-12	Gravelly Sandy Loam	SC-SM	A-1	0	0-8	70-100	63-75	36-52	18-30	11-20	NP-2
			SM	A-2								
	12-48	Clay Sandy Clay Clay Loam	ML	A-4 A-7	0	0-8	90-100	80-100	72-100	56-95	31-49	5-12
	48-68	Loam Clay Loam	ML	A-4	0	---	90-100	80-100	68-100	48-80	14-34	NP-7
Ashlar	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---
16:												
Chewacla	0-9	Fine Sandy Loam	SC-SM	A-4	0	0	98-100	95-100	66-85	38-55	10-25	NP-7
			SM									
	9-42	Loam Sandy Loam Clay Loam Fine Sandy Loam Silty Clay Loam	CL CL-ML ML	A-4 A-6	0	0	98-100	95-100	80-100	51-98	23-30	NP-14
	42-60	Sandy Loam Loam Sand Loamy Sand	CL CL-ML ML SM	A-2 A-4	0	0	98-100	95-100	48-95	5-75	9-30	NP-10
Abell	---				---	---	---	---	---	---	---	---
Altavista	---				---	---	---	---	---	---	---	---
Augusta	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
16:												
Bolling variant	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Wehadkee	---				---	---	---	---	---	---	---	---
17B:												
Colfax	0-8	Fine Sandy Loam	SC-SM	A-2	0	0	90-100	85-100	60-85	34-55	10-25	NP-7
			SM	A-4								
	8-24	Sandy Loam	CL	A-4	0	0	90-100	85-100	51-95	26-75	20-32	4-14
		Sandy Clay Loam	SC	A-6								
		Loam										
	24-60	Fine Sandy Loam	CL	A-2	0	0	90-100	85-100	51-95	26-75	20-34	4-12
		Sandy Clay Loam	SC	A-4								
		Loam	SC-SM	A-6								
		Sandy Loam										
Abell	---				---	---	---	---	---	---	---	---
Appling	---				---	---	---	---	---	---	---	---
Cecil	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---



**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
17B:												
Spotsylvania	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
17C:												
Colfax	0-8	Fine Sandy Loam	SC-SM	A-2	0	0	90-100	85-100	60-85	34-55	10-25	NP-7
			SM	A-4								
	8-24	Sandy Loam	CL	A-4	0	0	90-100	85-100	51-95	26-75	20-32	4-14
		Sandy Clay Loam	SC	A-6								
	24-60	Sandy Clay Loam	CL	A-2	0	0	90-100	85-100	51-95	26-75	20-34	4-12
		Sandy Loam	SC	A-4								
		Loam	SC-SM	A-6								
		Fine Sandy Loam										
Appling	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
18:												
Coxville	0-12	Loam	ML	A-4	0	0	100	100	85-95	60-75	9-25	NP-3
	12-79	Clay Loam	ML	A-4	0	0	100	100	90-100	70-95	31-49	5-12
		Clay		A-6								
		Sandy Clay		A-7								

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
18:												
Atlee	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Lenoir	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Rains	---				---	---	---	---	---	---	---	---
19B:												
Creedmoor	0-11	Fine Sandy Loam	SC-SM	A-4	0	0	100	100	70-85	40-55	10-30	2-11
	11-39	Sandy Clay Loam	SM									
		Clay Loam	CL	A-6	0	0	100	100	80-100	35-95	30-66	11-39
		Clay		A-7								
	39-58	Clay Loam	CH	A-7	0	0	100	100	60-95	30-60	26-62	NP-36
		Sandy Loam	MH									
		Sandy Clay Loam										
		Sandy Clay										
	58-79	Sandy Loam	SC	A-2	0	0	100	100	60-70	30-40	16-30	NP-11
			SC-SM	A-4								
			SM	A-6								
Bourne	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
19B:												
Colfax	---				---	---	---	---	---	---	---	---
Edgehill variant	---				---	---	---	---	---	---	---	---
Mayodan	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Pamunkey	---				---	---	---	---	---	---	---	---
Pinkston	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
20B:												
Creedmoor variant	0-10	Fine Sandy Loam	ML SC-SM	A-4	0	0	100	100	70-85	40-55	19-30	3-11
	10-55	Clay Loam Clay Sandy Clay Loam	CH CL	A-6 A-7	0	0	100	100	80-100	35-95	30-66	11-39
	55-79	Clay Loam Clay Loam Sandy Loam Sandy Clay Sandy Clay Loam	CH CH CL SC	A-2 A-4 A-6 A-7	0	0	100	100	60-100	30-95	21-75	4-46
Colfax	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
20B:												
Mayodan	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
21B2:												
Cullen	0-8	Loam	CL	A-4	0	0	98-100	95-100	81-95	57-75	20-31	NP-10
			CL-ML									
			ML									
	8-58	Clay	CH	A-7	0	0	95-100	93-99	83-99	69-95	43-61	17-27
			CL									
			MH									
	58-79	Clay Loam	CL	A-4	0	0	98-100	95-100	81-100	57-95	16-52	2-22
		Loam	CL-ML	A-6								
		Clay	ML	A-7								
Worsham	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
21C2:												
Cullen	0-8	Loam	CL	A-4	0	0	98-100	95-100	81-95	57-75	20-31	NP-10
			CL-ML									
			ML									
	8-58	Clay	CH	A-7	0	0	95-100	93-99	83-99	69-95	43-61	17-27
			CL									
			MH									
	58-79	Clay Loam	CL	A-4	0	0	98-100	95-100	81-100	57-95	16-52	2-22
		Loam	CL-ML	A-6								
		Clay	ML	A-7								
Abell	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---

21D2:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
21D2:												
Cullen	0-8	Loam	CL	A-4	0	0	98-100	95-100	81-95	57-75	20-31	NP-10
			CL-ML									
			ML									
	8-58	Clay	CH	A-7	0	0	95-100	93-99	83-99	69-95	43-61	17-27
			CL									
			MH									
	58-79	Clay Loam	CL	A-4	0	0	98-100	95-100	81-100	57-95	16-52	2-22
		Clay	CL-ML	A-6								
		Loam	ML	A-7								
Ashlar	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
22:												
Dawhoo variant	0-20	Gravelly Fine Sandy Loam	SC-SM	A-2	0	0	80-95	70-93	49-79	28-51	10-25	NP-7
		Fine Sandy Loam	SM	A-4								
	20-50	Gravelly Sandy Loam	GP-GM	A-1	0	0	50-80	40-75	20-72	6-44	9-34	NP-12
		Gravelly Loamy Sand	SM	A-2								
		Very Gravelly Loamy Sand	SP-SM	A-3								
		Gravelly Sandy Clay Loam										
	50-63	Gravelly Sandy Loam	SM	A-2	0	0	80-100	70-99	35-90	10-55	9-34	NP-12
		Loamy Sand	SP-SM									
		Gravelly Loamy Sand										
		Sandy Clay Loam										

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
22:												
Forestdale	---				---	---	---	---	---	---	---	---
Wehadkee	---				---	---	---	---	---	---	---	---
23:												
Dogue	0-11	Loam	ML	A-4	0	0	90-100	85-100	68-95	48-75	12-20	NP-4
			SM									
	11-51	Clay Loam	CH	A-6	0	0	90-100	85-100	76-100	60-95	30-52	10-22
		Clay	CL	A-7								
			ML									
	51-79	Sandy Clay	SC	A-2	0	0	90-100	85-100	51-100	26-95	12-52	NP-22
		Clay Loam	SC-SM	A-4								
		Sandy Clay Loam	SM									
		Loam										
		Sandy Loam										
		Clay										
Abell	---				---	---	---	---	---	---	---	---
Altavista	---				---	---	---	---	---	---	---	---
Atlee	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Caroline	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
23:												
Forestdale	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Masada	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Wahee	---				---	---	---	---	---	---	---	---
24:												
Dunbar	0-10	Fine Sandy Loam	SC-SM	A-4	0	0	100	100	70-85	40-55	9-25	NP-3
			SM									
	10-65	Clay Loam	ML	A-4	0	0	100	100	80-100	70-95	31-49	5-12
		Clay		A-6								
		Sandy Clay		A-7								
Atlee	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Caroline	---				---	---	---	---	---	---	---	---
Coxville	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---



# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
24: Norfolk	---				---	---	---	---	---	---	---	---
25A: Duplin	0-9	Fine Sandy Loam	SC-SM	A-4	0	0	95-100	93-100	64-85	37-55	1-19	NP-1
	9-72	Sandy Clay Clay Clay Loam	SM ML	A-4 A-6 A-7	0	0	95-100	93-100	83-100	64-95	31-49	5-12
Orangeburg	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Coxville	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---
25B:												

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
25B:												
Duplin	0-9	Fine Sandy Loam	SC-SM	A-4	0	0	95-100	93-100	64-85	37-55	1-19	NP-1
	9-72	Clay Clay Loam Sandy Clay	SM ML	A-4 A-6 A-7	0	0	95-100	93-100	83-100	64-95	31-49	5-12
Bourne	---				---	---	---	---	---	---	---	---
Coxville	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---
26B:												
Edgehill variant	0-18	Very Gravelly Sandy Loam	GM	A-1	0	0-5	30-50	20-40	15-25	8-15	11-20	NP-2
	18-64	Very Gravelly Sandy Clay Loam	GW-GM GM	A-1 A-2	0	0-5	30-50	20-40	15-35	7-25	20-31	2-5
Abell	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
26B:												
Duplin	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Coxville	---				---	---	---	---	---	---	---	---
Creedmoor	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Pinkston	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---
27B:												
Fluvanna	0-9	Silt Loam	CL	A-4	0	0	90-100	85-100	76-100	60-90	16-35	NP-16
			ML	A-6								
	9-59	Clay Loam	CH	A-7	0	0	90-100	85-100	76-100	60-95	45-70	22-42
		Clay										
	59-70	Silt Loam	CL	A-6	0	0-8	90-100	85-100	72-100	51-90	30-40	10-25
		Loam										
		Clay Loam										
Bourne	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
27B:												
Colfax	---				---	---	---	---	---	---	---	---
Georgeville	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
27C2:												
Fluvanna	0-9	Silt Loam	CL	A-4	0	0	90-100	85-100	76-100	60-90	16-35	NP-16
			ML	A-6								
	9-59	Clay Loam	CH	A-7	0	0	90-100	85-100	76-100	60-95	45-70	22-42
		Clay										
	59-70	Loam	CL	A-6	0	0-8	90-100	85-100	72-100	51-90	30-40	10-25
		Silt Loam										
		Clay Loam										
Colfax	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Georgeville	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---

28:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
28: Fluvaquents	0-4	Sand Loam Loamy Sand Sandy Loam Fine Sandy Loam Silt Loam	CL CL-ML ML	A-4 A-6	0	0	98-100	95-100	50-100	5-90	12-31	1-11
	4-52	Clay Loam Fine Sandy Loam Loam Sandy Clay Loam Sand Loamy Fine Sand Loamy Sand Sandy Loam	CL CL-ML SC SC-SM SW-SM	A-2-4 A-4 A-6	0	0	98-100	95-100	50-100	5-80	12-31	1-11
	52-74	Loam Gravelly Sand Loamy Sand Sandy Loam Sand Loamy Fine Sand Fine Sandy Loam	CL CL-ML SC SC-SM SP-SM SW-SM	A-1-b A-2-4 A-4	0	0-3	85-100	50-100	25-95	2-75	8-25	NP-8
Goldsboro	---				---	---	---	---	---	---	---	---
Udifluvents	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
28:												
Helena	---				---	---	---	---	---	---	---	---
Kenansville variant	---				---	---	---	---	---	---	---	---
29:												
Forestdale	0-8	Loam	CL	A-4 A-6	0	0	100	100	85-95	60-75	26-41	9-21
	8-46	Clay Clay Loam	CH	A-7	0	0	100	100	90-100	70-95	51-76	29-49
	46-60	Sandy Clay Loam Fine Sandy Loam Sandy Loam	CL SC	A-4 A-6 A-7	0	0	100	100	60-90	30-55	26-51	9-29
Worsham	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
30:												

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
30:												
Forestdale	0-8	Loam	CL	A-4 A-6	0	0	100	100	85-95	60-75	26-41	9-21
	8-46	Clay Clay Loam	CH	A-7	0	0	100	100	90-100	70-95	51-76	29-49
	46-60	Sandy Loam Sandy Clay Loam Fine Sandy Loam	CL SC	A-4 A-6 A-7	0	0	100	100	60-90	30-55	26-51	9-29
Abell	---				---	---	---	---	---	---	---	---
Altavista	---				---	---	---	---	---	---	---	---
Bolling variant	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---
Cullen	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---

31:

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
31: Fork	0-18	Fine Sandy Loam	ML SC-SM	A-4	0	0	90-100	85-100	60-85	34-55	16-25	2-7
	18-42	Loam Sandy Clay Loam Clay Loam	CL SC	A-4 A-6	0	0	90-100	85-100	68-100	30-80	23-31	6-14
	42-64	Silt Loam Loamy Sand Silty Clay Loam Loam Sandy Loam	CL ML SC SM	A-2 A-4 A-6	0	0	95-100	70-100	35-100	10-95	9-30	NP-14
Altavista	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Pamunkey	---				---	---	---	---	---	---	---	---
Wahee	---				---	---	---	---	---	---	---	---
Wehadkee	---				---	---	---	---	---	---	---	---

32B:



**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
32B:												
Georgeville	0-10	Loam	ML	A-4	0	0-5	95-100	93-100	65-100	55-95	13-25	NP-3
	10-56	Silty Clay	MH	A-5	0	0	100	100	90-100	75-98	31-52	5-13
		Silty Clay Loam	ML	A-7								
		Clay										
	56-93	Loam	ML	A-4	0	0-8	100	100	65-100	51-95	16-34	NP-7
		Silty Clay Loam										
		Silt Loam										
Colfax	---				---	---	---	---	---	---	---	---
Fluvanna	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
32C2:												
Georgeville	0-10	Loam	ML	A-4	0	0-5	95-100	93-100	65-100	55-95	13-25	NP-3
	10-56	Clay	MH	A-5	0	0	100	100	90-100	75-98	31-52	5-13
		Silty Clay Loam	ML	A-7								
		Silty Clay										
	56-93	Silty Clay Loam	ML	A-4	0	0-8	100	100	65-100	51-95	16-34	NP-7
		Silt Loam										
		Loam										
Fluvanna	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---

33B:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
33B:												
Goldsboro	0-10	Fine Sandy Loam	SC-SM	A-2	0	0	90-100	80-100	56-85	32-55	12-20	NP-4
			SM	A-4								
	10-69	Sandy Loam	CL	A-2	0	0	85-100	80-100	48-90	28-55	23-34	6-12
		Sandy Clay Loam	CL-ML	A-4								
			SC	A-6								
			SC-SM									
	69-79	Sandy Clay Loam	CL	A-2	0	0	85-100	80-100	48-90	28-55	16-30	2-10
		Sandy Loam	CL-ML	A-4								
			SC									
			SC-SM									
Altavista	---				---	---	---	---	---	---	---	---
Augusta	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Caroline	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
34B:												
Goldsboro	0-10	Fine Sandy Loam	SC-SM	A-2	0	0	90-100	80-100	56-85	32-55	12-20	NP-4
			SM	A-4								
	10-69	Sandy Clay Loam	CL	A-2	0	0	85-100	80-100	48-90	28-55	23-34	6-12
		Sandy Loam	CL-ML	A-4								
			SC	A-6								
			SC-SM									
	69-79	Sandy Loam	CL	A-2	0	0	85-100	80-100	48-90	28-55	16-30	2-10
		Sandy Clay Loam	CL-ML	A-4								
			SC									
			SC-SM									
Altavista	---				---	---	---	---	---	---	---	---
Augusta	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Lenoir	---				---	---	---	---	---	---	---	---
35B:												

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
35B:												
Helena	0-6	Sandy Loam	SC	A-2	0	0	98-100	95-100	57-70	28-40	16-30	NP-11
			SC-SM	A-4								
			SM									
	6-47	Clay Loam	CH	A-7	0	0	98-100	95-100	86-100	66-95	44-66	22-39
		Clay										
		Sandy Clay										
	47-60	Sandy Clay	CL	A-7	0	0	98-100	95-100	86-100	66-95	39-60	10-39
		Clay Loam										
		Clay										
Colfax	0-8	Fine Sandy Loam	SC-SM	A-2	0	0	90-100	85-100	60-85	34-55	10-25	NP-7
			SM	A-4								
	8-24	Loam	CL	A-4	0	0	90-100	85-100	51-95	26-75	20-32	4-14
		Sandy Loam	SC	A-6								
		Sandy Clay Loam										
	24-60	Sandy Loam	CL	A-2	0	0	90-100	85-100	51-95	26-75	20-34	4-12
		Fine Sandy Loam	SC	A-4								
		Sandy Clay Loam	SC-SM	A-6								
		Loam										
Abell	---				---	---	---	---	---	---	---	---
Altavista	---				---	---	---	---	---	---	---	---
Fluvanna	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
Forestdale	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
35B:												
Pacolet	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Appling	---				---	---	---	---	---	---	---	---
Aquults	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Wahee	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
36C:												
Helena	0-6	Sandy Loam	SC	A-2	0	0	98-100	95-100	57-70	28-40	16-30	NP-11
			SC-SM	A-4								
	6-47	Clay Sandy Clay Clay Loam	SM CH	A-7	0	0	98-100	95-100	86-100	66-95	44-66	22-39
	47-60	Clay Clay Loam Sandy Clay	CL	A-7	0	0	98-100	95-100	86-100	66-95	39-60	10-39

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
36C:												
Orange	0-10	Fine Sandy Loam	CL-ML SC SC-SM	A-4 A-6	0	0	90-100	85-99	60-85	34-55	20-36	5-17
	10-42	Clay Clay Loam	CH	A-7	0	0	90-100	85-99	76-99	60-95	51-76	29-49
	42-60	Sandy Clay Loam Sandy Loam	CL SC	A-2 A-6 A-7	0	0-15	90-100	85-99	51-90	26-55	26-51	9-29
Abell	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
37:												
Hydraquents	0-20	Clay Mucky Silt Loam Mucky Clay Mucky Silty Clay Mucky Silty Clay Loam	CH CL	A-7-6	0	0	100	100	90-100	75-95	48-66	25-39
	20-40	Mucky Silty Clay Mucky Clay Silty Clay	CH CL	A-7-6	0	0	100	100	90-100	75-95	44-66	22-39
	40-80	Sand Stratified Mucky Sandy Loam To Sandy Loam Clay	CH CL CL-ML SC	A-2-7 A-4 A-6 A-7-6	0	0	100	100	50-100	5-95	17-66	1-39

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
37:												
Fluvaquents	---				---	---	---	---	---	---	---	---
38C:												
Iredell	0-9	Sandy Loam	SC	A-2	0	0-2	95-100	93-99	55-70	27-40	26-36	9-17
			SC-SM	A-2-4								
				A-4								
	9-34	Clay Loam	CH	A-7	0	0-2	95-100	93-99	83-99	64-95	51-106	29-57
		Clay										
	34-79	Sandy Loam	SC	A-7	0	0-2	95-100	93-99	55-99	27-90	26-56	9-33
		Clay Loam										
		Silt Loam										
		Loam										
		Sandy Clay Loam										
Orange	0-10	Fine Sandy Loam	CL-ML	A-4	0	0	90-100	85-99	60-85	34-55	20-36	5-17
			SC	A-6								
			SC-SM									
	10-42	Clay Loam	CH	A-7	0	0	90-100	85-99	76-99	60-95	51-76	29-49
		Clay										
	42-60	Sandy Loam	CL	A-2	0	0-15	90-100	85-99	51-90	26-55	26-51	9-29
		Sandy Clay Loam	SC	A-6								
				A-7								
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
38C:												
Cecil	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Cullen	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
39B:												
Kempsville	0-12	Gravelly Fine Sandy Loam	GC-GM GM SC-SM SM	A-1 A-2 A-4	0	0-8	60-80	50-75	35-64	20-41	12-20	NP-4
	12-45	Sandy Clay Loam Fine Sandy Loam Sandy Loam Loam	SC SM	A-2 A-4	0	0-8	95-100	93-100	55-95	27-75	10-34	NP-12
	45-60	Loam Gravelly Loam Gravelly Sandy Clay Loam Gravelly Sandy Loam	GC-GM GM SC SC-SM SM	A-1 A-2 A-4 A-6	0	0	60-90	50-85	30-85	15-68	13-30	NP-14
Bourne	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Kenansville	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---



**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
39B:												
Suffolk	---				---	---	---	---	---	---	---	---
Caroline	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
39C:												
Kempsville	0-12	Gravelly Fine Sandy Loam	GC-GM GM SC-SM SM	A-1 A-2 A-4	0	0-8	60-80	50-75	35-64	20-41	12-20	NP-4
	12-45	Sandy Loam Loam Sandy Clay Loam Fine Sandy Loam	SC SM	A-2 A-4	0	0-8	95-100	93-100	55-95	27-75	10-34	NP-12
	45-60	Loam Gravelly Loam Gravelly Sandy Clay Loam Gravelly Sandy Loam	GC-GM GM SC SC-SM SM	A-1 A-2 A-4 A-6	0	0	60-90	50-85	30-85	15-68	13-30	NP-14
Bourne	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---

### Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
39C:												
Fluvaquents	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---
40A:												
Kempsville	0-12	Fine Sandy Loam	SC-SM	A-4	0	0-8	95-100	93-100	64-85	36-55	12-20	NP-4
			SM									
	12-45	Loam	SC	A-2	0	0-8	95-100	93-100	55-95	27-75	10-34	NP-12
		Sandy Clay Loam	SM	A-4								
		Fine Sandy Loam										
		Sandy Loam										
	45-60	Gravelly Sandy Loam	GC-GM	A-1	0	0	60-90	50-85	30-85	15-68	13-30	NP-14
		Loam	GM	A-2								
		Gravelly Sandy Clay Loam	SC	A-4								
		Gravelly Loam	SC-SM	A-6								
			SM									

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
40A:												
Bourne	0-13	Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	80-100	80-100	56-85	32-55	10-25	NP-7
	13-24	Clay Loam	CL	A-2	0	0	80-100	80-100	64-100	28-80	25-32	7-14
		Sandy Clay Loam	SC	A-6								
	24-68	Sandy Clay Loam	CL	A-2	0	0	80-100	80-100	48-90	24-55	20-30	4-14
		Sandy Loam	SC	A-4								
			SC-SM	A-6								
	68-76	Sandy Clay Loam	CL	A-2	0	0	80-100	80-100	48-100	24-95	10-61	3-27
		Clay Loam	SC	A-4								
		Loam	SM	A-6								
		Sandy Clay		A-7								
		Sandy Loam										
		Clay										
Dunbar	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Kenansville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
40A: Suffolk	---				---	---	---	---	---	---	---	---
40B: Kempsville	0-12	Fine Sandy Loam	SC-SM SM	A-4	0	0-8	95-100	93-100	64-85	36-55	12-20	NP-4
	12-45	Sandy Loam Sandy Clay Loam Loam Fine Sandy Loam	SC SM	A-2 A-4	0	0-8	95-100	93-100	55-95	27-75	10-34	NP-12
	45-60	Loam Gravelly Sandy Clay Loam Gravelly Sandy Loam Gravelly Loam	GC-GM GM SC SC-SM SM	A-1 A-2 A-4 A-6	0	0	60-90	50-85	30-85	15-68	13-30	NP-14
Bourne	0-13	Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	80-100	80-100	56-85	32-55	10-25	NP-7
	13-24	Sandy Clay Loam Clay Loam	CL SC	A-2 A-6	0	0	80-100	80-100	64-100	28-80	25-32	7-14
	24-68	Sandy Clay Loam Sandy Loam	CL SC SC-SM	A-2 A-4 A-6	0	0	80-100	80-100	48-90	24-55	20-30	4-14
	68-76	Loam Sandy Loam Sandy Clay Loam Clay Loam Sandy Clay Clay	CL SC SM	A-2 A-4 A-6 A-7	0	0	80-100	80-100	48-100	24-95	10-61	3-27
Dunbar	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
40B:												
Duplin	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Kenansville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---
41:												
Kenansville	0-21	Loamy Sand	SM	A-1	0	0	100	95-100	48-75	14-30	10-16	NP-2
	21-48	Sandy Loam	SC	A-2	0	0	100	95-100	57-90	28-55	12-30	NP-14
		Sandy Clay Loam	SC-SM	A-4								
		Fine Sandy Loam	SM									
	48-79	Sand	SM	A-1	0	0	65-100	55-100	28-75	3-30	0-16	NP-2
		Gravelly Sand	SP-SM	A-2								
		Gravelly Loamy Sand		A-3								
		Loamy Sand										
Dogue	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
41:												
Kempsville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---
42:												
Kenansville variant	0-21	Loamy Sand	SM	A-1 A-2	0	0	98-100	95-100	48-75	14-30	10-12	NP
	21-48	Fine Sandy Loam Loamy Sand	SM	A-2 A-4	0	0	98-100	95-100	48-85	14-55	10-25	NP-7
	48-79	Sand Loamy Sand	SM	A-2	0	0	98-100	95-100	48-75	5-30	0-16	NP-2
Altavista	---				---	---	---	---	---	---	---	---
Augusta	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---
Wehadkee	---				---	---	---	---	---	---	---	---
43:												

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
43: Lenoir	0-9	Loam	CL CL-ML ML	A-4	0	0	100	100	85-98	60-85	17-30	1-11
	9-99	Silty Clay Clay Clay Loam	CH CL	A-7	0	0	100	100	90-100	70-95	44-66	22-39
Coxville	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
44B: Masada	0-8	Fine Sandy Loam	ML SC-SM SM	A-4	0	0-30	90-100	80-100	56-85	32-55	16-25	2-7
	8-53	Sandy Clay Loam Gravelly Sandy Clay Loam Clay Clay Loam	CH CL ML	A-6 A-7	0	0-30	70-100	50-100	40-100	18-95	25-56	7-24
	53-67	Clay Loam Gravelly Sandy Loam Sandy Loam Clay Loam Sandy Clay Loam	CL ML SM	A-2 A-4 A-6 A-7	0	0-55	70-100	50-100	30-100	15-95	10-61	NP-27
Altavista	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
44B:												
Appling	---				---	---	---	---	---	---	---	---
Cecil	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
Turbeville	---				---	---	---	---	---	---	---	---
45B:												
Mayodan	0-8	Sandy Loam	SM	A-2	0	0-8	90-100	85-100	54-70	27-40	9-20	NP-2
	8-47	Clay Clay Loam Sandy Clay	ML	A-4 A-6	0	0-3	90-100	85-100	76-100	60-95	25-49	3-12
	47-79	Sandy Clay Loam Clay Loam	ML SM	A-4	0	0-3	90-100	85-100	68-100	30-80	20-34	2-7
Creedmoor	0-11	Fine Sandy Loam	SC-SM SM	A-4	0	0	100	100	70-85	40-55	10-30	2-11
	11-39	Sandy Clay Loam Clay Loam Clay	CL	A-6 A-7	0	0	100	100	80-100	35-95	30-66	11-39
	39-58	Clay Loam Sandy Clay Loam Sandy Loam Sandy Clay	CH MH	A-7	0	0	100	100	60-95	30-60	26-62	NP-36
	58-79	Sandy Loam	SC SC-SM SM	A-2 A-4 A-6	0	0	100	100	60-70	30-40	16-30	NP-11
Bourne	---				---	---	---	---	---	---	---	---



# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
45B:												
Edgehill variant	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Pinkston	---				---	---	---	---	---	---	---	---
46:												
Myatt variant	0-10	Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	90-100	80-100	56-85	32-55	10-25	NP-7
	10-45	Clay Loam Sandy Clay Loam Silty Clay Loam	CL SC	A-2 A-4 A-6 A-7	0	0-8	85-100	80-100	64-100	28-95	25-43	7-17
	45-60	Sand Sandy Loam Fine Sandy Loam Gravelly Sand	GP-GM ML SM SP-SM	A-1 A-2 A-4	0	0-8	70-100	50-100	25-85	2-55	9-25	NP-7
Altavista	---				---	---	---	---	---	---	---	---
Augusta	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Kenansville variant	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
46: Wehadkee	---				---	---	---	---	---	---	---	---
47A: Norfolk	0-14	Fine Sandy Loam	SC	A-4	0	0	98-100	95-100	66-85	38-55	12-23	NP-36
			SC-SM									
			SM									
	14-79	Clay Loam	CL	A-2	0	0	98-100	95-100	57-100	28-80	23-31	6-14
		Sandy Clay Loam	CL-ML	A-4								
		Sandy Loam	SC	A-6								
			SC-SM									
Dogue	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---
Atlee	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Coxville	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
47A: Orangeburg	---				---	---	---	---	---	---	---	---
47B: Norfolk	0-14	Fine Sandy Loam	SC SC-SM SM	A-4	0	0	98-100	95-100	66-85	38-55	12-23	NP-36
	14-79	Sandy Clay Loam Sandy Loam Clay Loam	CL CL-ML SC SC-SM	A-2 A-4 A-6	0	0	98-100	95-100	57-100	28-80	23-31	6-14
Abell	---				---	---	---	---	---	---	---	---
Atlee	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Caroline	---				---	---	---	---	---	---	---	---
Cecil	---				---	---	---	---	---	---	---	---
Coxville	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Edgehill variant	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
47B:												
Faceville	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
48B:												
Orange	0-10	Fine Sandy Loam	CL-ML SC SC-SM	A-4 A-6	0	0	90-100	85-99	60-85	34-55	20-36	5-17
	10-42	Clay Clay Loam	CH	A-7	0	0	90-100	85-99	76-99	60-95	51-76	29-49
	42-60	Sandy Loam Sandy Clay Loam	CL SC	A-2 A-6 A-7	0	0-15	90-100	85-99	51-90	26-55	26-51	9-29

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
48B:												
Iredell	0-9	Sandy Loam	SC SC-SM	A-2 A-2-4 A-4	0	0-2	95-100	93-99	55-70	27-40	26-36	9-17
	9-34	Clay Loam Clay	CH	A-7	0	0-2	95-100	93-99	83-99	64-95	51-106	29-57
	34-79	Sandy Loam Silt Loam Loam Sandy Clay Loam Clay Loam	SC	A-7	0	0-2	95-100	93-99	55-99	27-90	26-56	9-33
Abell	---				---	---	---	---	---	---	---	---
Appling	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
Forestdale	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
48B:												
Cecil	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
49B:												
Orangeburg	0-16	Fine Sandy Loam	SM	A-2	0	0	98-100	95-100	75-95	20-35	13-25	NP-7
	16-70	Sandy Clay Loam	SM	A-2	0	0	98-100	95-100	70-96	25-35	10-23	NP-6
Kenansville	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---
50A:												
Orangeburg	0-16	Fine Sandy Loam	SM	A-2	0	0	98-100	95-100	75-95	20-35	13-25	NP-7
	16-70	Sandy Clay Loam	SM	A-2	0	0	98-100	95-100	70-96	25-35	10-23	NP-6

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
50A:												
Faceville	0-10	Fine Sandy Loam	SC-SM	A-2	0	0	95-100	85-100	60-85	34-55	9-20	NP-2
			SM	A-4								
	10-17	Clay Loam	ML	A-4	0	0	98-100	95-100	86-100	66-95	27-49	4-12
		Clay		A-6								
		Sandy Clay										
		Sandy Clay Loam										
Atlee	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Coxville	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---
50B:												
Orangeburg	0-16	Fine Sandy Loam	SM	A-2	0	0	98-100	95-100	75-95	20-35	13-25	NP-7
	16-70	Sandy Clay Loam	SM	A-2	0	0	98-100	95-100	70-96	25-35	10-23	NP-6

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
50B:												
Faceville	0-10	Fine Sandy Loam	SC-SM	A-2	0	0	95-100	85-100	60-85	34-55	9-20	NP-2
			SM	A-4								
	10-17	Sandy Clay	ML	A-4	0	0	98-100	95-100	86-100	66-95	27-49	4-12
		Clay Loam		A-6								
		Sandy Clay Loam										
		Clay										
Appling	---				---	---	---	---	---	---	---	---
Atlee	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Cecil	---				---	---	---	---	---	---	---	---
Coxville	---				---	---	---	---	---	---	---	---
Creedmoor	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Dunbar	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Mayodan	---				---	---	---	---	---	---	---	---
50C:												
Orangeburg	0-16	Fine Sandy Loam	SM	A-2	0	0	98-100	95-100	75-95	20-35	13-25	NP-7
	16-70	Sandy Clay Loam	SM	A-2	0	0	98-100	95-100	70-96	25-35	10-23	NP-6



**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
50C:												
Faceville	0-10	Fine Sandy Loam	SC-SM	A-2	0	0	95-100	85-100	60-85	34-55	9-20	NP-2
			SM	A-4								
	10-17	Sandy Clay	ML	A-4	0	0	98-100	95-100	86-100	66-95	27-49	4-12
		Sandy Clay Loam		A-6								
		Clay Loam										
		Clay										
Bourne	---				---	---	---	---	---	---	---	---
Caroline	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
51B2:												
Pacolet	0-5	Fine Sandy Loam	SC-SM	A-2	0	0-3	85-100	70-100	49-85	28-55	11-20	NP-2
			SM	A-4								
	5-35	Clay Loam	MH	A-5	0	0	90-100	85-100	68-100	30-95	31-52	5-13
		Sandy Clay	ML	A-6								
		Clay		A-7								
	35-60	Fine Sandy Loam	ML	A-2-4	0	0	90-100	85-100	51-95	26-75	10-24	NP-3
		Sandy Loam	SC-SM	A-4								
		Loam	SM									
Abell	---				---	---	---	---	---	---	---	---
Appling	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
51B2:												
Bourne	---				---	---	---	---	---	---	---	---
Cullen	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
51C2:												
Pacolet	0-5	Fine Sandy Loam	SC-SM	A-2	0	0-3	85-100	70-100	49-85	28-55	11-20	NP-2
			SM	A-4								
	5-35	Clay	MH	A-5	0	0	90-100	85-100	68-100	30-95	31-52	5-13
		Clay Loam	ML	A-6								
		Sandy Clay		A-7								
	35-60	Loam	ML	A-2-4	0	0	90-100	85-100	51-95	26-75	10-24	NP-3
		Fine Sandy Loam	SC-SM	A-4								
		Sandy Loam	SM									
Vance	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Appling	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
51C2:												
Bourne	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Cullen	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---
51D2:												
Pacolet	0-5	Fine Sandy Loam	SC-SM	A-2	0	0-3	85-100	70-100	49-85	28-55	11-20	NP-2
			SM	A-4								
	5-35	Clay	MH	A-5	0	0	90-100	85-100	68-100	30-95	31-52	5-13
		Clay Loam	ML	A-6								
		Sandy Clay		A-7								
	35-60	Fine Sandy Loam	ML	A-2-4	0	0	90-100	85-100	51-95	26-75	10-24	NP-3
		Sandy Loam	SC-SM	A-4								
		Loam	SM									
Ashlar	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
51D2:												
Spotsylvania	---				---	---	---	---	---	---	---	---
52C3:												
Pacolet	0-5	Clay Loam	ML SC-SM SM	A-4	0	0-3	85-100	70-100	63-95	49-80	25-34	3-7
	5-35	Sandy Clay Clay Loam Clay	MH ML	A-5 A-6 A-7	0	0	90-100	85-100	68-100	30-95	31-52	5-13
	35-60	Loam Fine Sandy Loam Sandy Loam	ML SC-SM SM	A-2-4 A-4	0	0	90-100	85-100	51-95	26-75	10-24	NP-3
Abell	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Cullen	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---

53B:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
53B:												
Pacolet	0-5	Gravelly Sandy Loam	SC-SM SM	A-1-b A-2 A-4	0	0-3	85-100	70-100	42-70	21-40	11-20	NP-2
	5-35	Sandy Clay Clay Loam Clay	MH ML	A-5 A-6 A-7	0	0	90-100	85-100	68-100	30-95	31-52	5-13
	35-60	Sandy Loam Fine Sandy Loam Loam	ML SC-SM SM	A-2-4 A-4	0	0	90-100	85-100	51-95	26-75	10-24	NP-3
Cecil	0-5	Gravelly Sandy Loam	SC-SM SM	A-1 A-2	0	0	70-85	63-75	37-52	18-30	9-20	NP-2
	5-53	Clay Clay Loam	MH ML	A-5 A-7	0	0	90-100	85-100	76-100	60-95	31-56	5-14
	53-60	Clay Loam Loam	ML SM	A-4	0	0	85-100	80-99	68-99	48-79	13-34	NP-7
Abell	---				---	---	---	---	---	---	---	---
Cullen	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---

53C2:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
53C2:												
Pacolet	0-5	Gravelly Sandy Loam	SC-SM SM	A-1-b A-2 A-4	0	0-3	85-100	70-100	42-70	21-40	11-20	NP-2
	5-35	Clay Clay Loam Sandy Clay	MH ML	A-5 A-6 A-7	0	0	90-100	85-100	68-100	30-95	31-52	5-13
	35-60	Sandy Loam Loam Fine Sandy Loam	ML SC-SM SM	A-2-4 A-4	0	0	90-100	85-100	51-95	26-75	10-24	NP-3
Cecil	0-5	Gravelly Sandy Loam	SC-SM SM	A-1 A-2	0	0	70-85	63-75	37-52	18-30	9-20	NP-2
	5-53	Clay Loam Clay	MH ML	A-5 A-7	0	0	90-100	85-100	76-100	60-95	31-56	5-14
	53-60	Loam Clay Loam	ML SM	A-4	0	0	85-100	80-99	68-99	48-79	13-34	NP-7
Cullen	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---

54B:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
54B:												
Pamunkey	0-9	Loamy Sand Fine Sandy Loam	ML SC-SM SM SP-SM	A-2 A-4	0	0	90-100	80-99	40-85	12-55	10-20	NP-4
	9-46	Loam Clay Loam Sandy Loam Sandy Clay Loam	CL SC	A-2 A-6	0	0-8	90-100	80-99	48-99	24-80	23-32	6-14
	46-99	Gravelly Sandy Loam Gravelly Sand Loamy Sand Sandy Loam	SC-SM SM SW SW-SM	A-1 A-2 A-3	0-40	0-15	60-100	50-99	25-70	2-40	0-25	NP-7
Altavista	---				---	---	---	---	---	---	---	---
Augusta	---				---	---	---	---	---	---	---	---
Kenansville variant	---				---	---	---	---	---	---	---	---
Tarboro	---				---	---	---	---	---	---	---	---

55A:

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
55A: Pamunkey	0-9	Fine Sandy Loam Loamy Sand	ML SC-SM SM SP-SM	A-2 A-4	0	0	90-100	80-99	40-85	12-55	10-20	NP-4
	9-46	Sandy Loam Loam Clay Loam Sandy Clay Loam	CL SC	A-2 A-6	0	0-8	90-100	80-99	48-99	24-80	23-32	6-14
	46-99	Gravelly Loamy Sand Gravelly Sand Sandy Loam Gravelly Sandy Loam	SC-SM SM SW SW-SM	A-1 A-2 A-3	0-40	0-15	60-100	50-99	25-70	2-40	0-25	NP-7
Altavista	---				---	---	---	---	---	---	---	---
Augusta	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Wahee	---				---	---	---	---	---	---	---	---

55B:



**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
55B: Pamunkey	0-9	Fine Sandy Loam Loamy Sand	ML SC-SM SM SP-SM	A-2 A-4	0	0	90-100	80-99	40-85	12-55	10-20	NP-4
	9-46	Sandy Loam Loam Clay Loam Sandy Clay Loam	CL SC	A-2 A-6	0	0-8	90-100	80-99	48-99	24-80	23-32	6-14
	46-99	Gravelly Loamy Sand Gravelly Sand Sandy Loam Gravelly Sandy Loam	SC-SM SM SW SW-SM	A-1 A-2 A-3	0-40	0-15	60-100	50-99	25-70	2-40	0-25	NP-7
Altavista	---				---	---	---	---	---	---	---	---
Augusta	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Wahee	---				---	---	---	---	---	---	---	---

56:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
56: Pamunkey	0-9	Loamy Sand Fine Sandy Loam	ML SC-SM SM SP-SM	A-2 A-4	0	0	90-100	80-99	40-85	12-55	10-20	NP-4
	9-46	Loam Clay Loam Sandy Clay Loam Sandy Loam	CL SC	A-2 A-6	0	0-8	90-100	80-99	48-99	24-80	23-32	6-14
	46-99	Sandy Loam Gravelly Sandy Loam Gravelly Loamy Sand Gravelly Sand	SC-SM SM SW SW-SM	A-1 A-2 A-3	0-40	0-15	60-100	50-99	25-70	2-40	0-25	NP-7
Altavista	---				---	---	---	---	---	---	---	---
Augusta	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
57B: Pamunkey variant	0-9	Gravelly Sandy Loam	GM SC-SM SM	A-1 A-2	0	0-8	60-75	50-65	30-46	15-26	14-25	1-7
	9-26	Very Gravelly Sandy Loam Gravelly Sandy Loam	GM SM	A-1 A-2	0	0-8	45-80	35-70	21-49	10-28	12-25	NP-7
	26-60	Loamy Sand Very Gravelly Sand Gravelly Loamy Sand	GM SC-SM SM	A-1	0	0-8	45-75	35-65	18-49	2-20	9-16	NP-2
Altavista	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
57B:												
Chewacla	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Tarboro	---				---	---	---	---	---	---	---	---
Udifuvents	---				---	---	---	---	---	---	---	---
Wahee	---				---	---	---	---	---	---	---	---
58C:												
Pinkston	0-12	Sandy Loam	SC	A-1	0	0-15	75-99	70-98	42-70	21-40	20-25	4-10
		Gravelly Sandy Loam	SC-SM	A-2								
				A-4								
	12-32	Sandy Clay Loam	GM	A-1	0	0-15	60-99	50-98	30-70	15-40	21-30	NP-11
		Clay Loam	SM	A-2								
		Sandy Loam		A-4								
		Gravelly Sandy Loam		A-6								
	32-79	Bedrock	---	---	---	---	---	---	---	---	---	---
Mayodan	0-8	Sandy Loam	SM	A-2	0	0-8	90-100	85-100	54-70	27-40	9-20	NP-2
				A-4								
	8-47	Sandy Clay	ML	A-4	0	0-3	90-100	85-100	76-100	60-95	25-49	3-12
		Clay Loam		A-6								
		Clay										
	47-79	Clay Loam	ML	A-4	0	0-3	90-100	85-100	68-100	30-80	20-34	2-7
		Sandy Clay Loam	SM									
Colfax	---				---	---	---	---	---	---	---	---
Creedmoor	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
58C:												
Helena	---				---	---	---	---	---	---	---	---
Edgehill variant	---				---	---	---	---	---	---	---	---
58D:												
Pinkston	0-12	Gravelly Sandy Loam Sandy Loam	SC SC-SM	A-1 A-2 A-4	0	0-15	75-99	70-98	42-70	21-40	20-25	4-10
	12-32	Clay Loam Sandy Clay Loam Sandy Loam Gravelly Sandy Loam	GM SM	A-1 A-2 A-4 A-6	0	0-15	60-99	50-98	30-70	15-40	21-30	NP-11
	32-79	Bedrock	---	---	---	---	---	---	---	---	---	---
Mayodan	0-8	Sandy Loam	SM	A-2 A-4	0	0-8	90-100	85-100	54-70	27-40	9-20	NP-2
	8-47	Clay Clay Loam Sandy Clay	ML	A-4	0	0-3	90-100	85-100	76-100	60-95	25-49	3-12
	47-79	Sandy Clay Loam Clay Loam	SM	A-4	0	0-3	90-100	85-100	68-100	30-80	20-34	2-7
Chewacla	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Udifulvents	---				---	---	---	---	---	---	---	---

58E:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
58E:												
Pinkston	0-12	Gravelly Sandy Loam Sandy Loam	SC SC-SM	A-1 A-2 A-4	0	0-15	75-99	70-98	42-70	21-40	20-25	4-10
	12-32	Sandy Loam Gravelly Sandy Loam Sandy Clay Loam Clay Loam	GM SM	A-1 A-2 A-4 A-6	0	0-15	60-99	50-98	30-70	15-40	21-30	NP-11
	32-79	Bedrock	---	---	---	---	---	---	---	---	---	---
Mayodan	0-8	Sandy Loam	SM	A-2 A-4	0	0-8	90-100	85-100	54-70	27-40	9-20	NP-2
	8-47	Sandy Clay Clay Loam Clay	ML	A-4 A-6	0	0-3	90-100	85-100	76-100	60-95	25-49	3-12
	47-79	Sandy Clay Loam Clay Loam	ML SM	A-4	0	0-3	90-100	85-100	68-100	30-80	20-34	2-7
Chewacla	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Udifuvents	---				---	---	---	---	---	---	---	---
59:												
Pits, borrow	---				---	---	---	---	---	---	---	---
60:												
Pits, quarry	---				---	---	---	---	---	---	---	---

61:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
61: Rains	0-17	Fine Sandy Loam	ML SM	A-4	0	0	98-100	95-100	66-85	38-55	10-25	NP-7
	17-68	Clay Loam Sandy Clay Loam	CL CL-ML SC SC-SM	A-2 A-4 A-6	0	0	98-100	95-100	76-100	33-80	23-31	6-14
	68-79	Stratified Sand To Clay	SC	A-6	0	0	98-100	95-100	48-100	5-95	9-61	NP-27
Dunbar	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---
62B: Spotsylvania	0-12	Fine Sandy Loam Gravelly Fine Sandy Loam	ML SC-SM SM	A-2 A-4	0	0	80-100	70-100	49-85	28-55	9-20	NP-2
	12-25	Loam Gravelly Sandy Clay Loam Clay Loam Sandy Clay Loam	ML SM	A-2 A-4	0	0-8	80-100	70-100	48-100	21-80	20-34	2-7
	25-60	Clay Clay Loam	ML	A-4 A-7	0	0-8	90-100	80-100	72-100	56-95	30-45	NP-11

## Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
62B: Bourne	0-13	Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	80-100	80-100	56-85	32-55	10-25	NP-7
	13-24	Sandy Clay Loam	CL	A-2	0	0	80-100	80-100	64-100	28-80	25-32	7-14
	24-68	Clay Loam	SC	A-6								
		Sandy Loam	CL	A-2	0	0	80-100	80-100	48-90	24-55	20-30	4-14
		Sandy Clay Loam	SC	A-4								
			SC-SM	A-6								
	68-76	Sandy Clay Loam	CL	A-2	0	0	80-100	80-100	48-100	24-95	10-61	3-27
		Loam	SC	A-4								
		Sandy Loam	SM	A-6								
		Clay		A-7								
		Sandy Clay										
		Clay Loam										
Abell	---				---	---	---	---	---	---	---	---
Appling	---				---	---	---	---	---	---	---	---
Cecil	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Masada	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
62B:												
Vance	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
62C:												
Spotsylvania	0-12	Fine Sandy Loam Gravelly Fine Sandy Loam	ML SC-SM	A-2 A-4	0	0	80-100	70-100	49-85	28-55	9-20	NP-2
	12-25	Clay Loam Loam Gravelly Sandy Clay Loam Sandy Clay Loam	ML SM	A-2 A-4	0	0-8	80-100	70-100	48-100	21-80	20-34	2-7
	25-60	Clay Loam Clay	ML	A-4 A-7	0	0-8	90-100	80-100	72-100	56-95	30-45	NP-11
Bourne	0-13	Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	80-100	80-100	56-85	32-55	10-25	NP-7
	13-24	Clay Loam Sandy Clay Loam	CL SC	A-2 A-6	0	0	80-100	80-100	64-100	28-80	25-32	7-14
	24-68	Sandy Clay Loam Sandy Loam	CL SC	A-2 A-4	0	0	80-100	80-100	48-90	24-55	20-30	4-14
	68-76	Sandy Loam Sandy Clay Loam Sandy Clay Clay Loam Loam Clay	SC-SM CL SC SM	A-6 A-2 A-4 A-6 A-7	0	0	80-100	80-100	48-100	24-95	10-61	3-27



**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
62C:												
Abell	---				---	---	---	---	---	---	---	---
Appling	---				---	---	---	---	---	---	---	---
Cecil	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
63A:												
Suffolk	0-9	Loamy Fine Sand	SC-SM	A-2	0	0	100	100	50-75	15-30	15-18	NP-6
	9-51	Sandy Clay Loam	SM									
		Sandy Loam	CL	A-2	0	0	100	100	60-100	30-80	20-40	10-25
		Clay Loam	SC	A-6								
	51-72	Sandy Loam	SC-SM	A-2	0	0	100	100	50-85	5-45	15-18	NP-6
		Loamy Fine Sand	SM	A-3								
		Sand		A-4								
Faceville	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Caroline	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
63A:												
Goldsboro	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Kenansville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
63B:												
Suffolk	0-9	Loamy Fine Sand	SC-SM	A-2	0	0	100	100	50-75	15-30	15-18	NP-6
	9-51	Sandy Loam Clay Loam Sandy Clay Loam	CL SC	A-2 A-6	0	0	100	100	60-100	30-80	20-40	10-25
	51-72	Loamy Fine Sand Sand Sandy Loam	SC-SM SM	A-2 A-3 A-4	0	0	100	100	50-85	5-45	15-18	NP-6
Kempsville	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Caroline	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---

### Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
63B:												
Kenansville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
63C:												
Suffolk	0-9	Loamy Fine Sand	SC-SM	A-2	0	0	100	100	50-75	15-30	15-18	NP-6
	9-51	Sandy Loam	SM									
		Clay Loam	CL	A-2	0	0	100	100	60-100	30-80	20-40	10-25
		Sandy Clay Loam	SC	A-6								
	51-72	Sand	SC-SM	A-2	0	0	100	100	50-85	5-45	15-18	NP-6
		Loamy Fine Sand	SM	A-3								
		Sandy Loam		A-4								
Bourne	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---

64B:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
64B:												
Tarboro	0-12	Loamy Sand	SM	A-1 A-2	0	0	90-100	85-99	45-75	14-30	10-16	NP-2
	12-94	Sand Gravelly Sand Loamy Sand Gravelly Loamy Sand	SM SP SP-SM SW-SM	A-1 A-2 A-3	0	0	60-98	50-94	25-71	2-28	9-13	NP
Altavista	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Forestdale	---				---	---	---	---	---	---	---	---
Pamunkey	---				---	---	---	---	---	---	---	---
Wehadkee	---				---	---	---	---	---	---	---	---
65B:												
Turbeville	0-10	Fine Sandy Loam	CL-ML ML SC-SM	A-2 A-4	0	0-45	90-100	80-100	56-85	32-55	16-23	NP-10
	10-79	Sandy Clay Loam Clay Sandy Clay Clay Loam	SM CH CL MH	A-7	0	0-30	90-100	80-100	64-100	28-95	37-66	10-39
Altavista	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
65B:												
Masada	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
66C:												
Udalfs	0-6	Fine Sandy Loam Sandy Loam	SC SC-SM SM	A-2-4 A-4	0	0	90-100	85-100	50-85	25-55	16-28	NP-10
	6-25	Clay Loam Sandy Clay Loam	CL SC	A-6	0	0	90-100	85-100	70-100	30-80	30-44	11-22
	25-39	Sandy Clay Loam Gravelly Sandy Loam Fine Sandy Loam Loam Sandy Loam	CL-ML SC-SM	A-2-4 A-4	0	0	80-100	70-100	40-95	20-75	21-44	4-22
	39-54	Bedrock	---	---	---	---	---	---	---	---	---	---
	54-58	Bedrock	---	---	---	---	---	---	---	---	---	---
Ochrepts	0-3	Channery Silt Loam	GC-GM ML SM	A-2-4 A-4	0	0-10	35-75	15-70	15-70	15-60	12-31	1-11
	3-16	Very Channery Very Fine Sandy Loam Very Channery Silt Loam	GC-GM GM	A-1-b A-2-4	0	5-50	10-50	10-40	10-40	10-35	7-31	NP-11
	16-41	Bedrock	---	---	---	---	---	---	---	---	---	---
	41-51	Bedrock	---	---	---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Appling	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
66C:												
Pacolet	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
66D:												
Udalfs	0-6	Fine Sandy Loam Sandy Loam	SC SC-SM SM	A-2-4 A-4	0	0	90-100	85-100	50-85	25-55	16-28	NP-10
	6-25	Clay Loam Sandy Clay Loam	CL SC	A-6	0	0	90-100	85-100	70-100	30-80	30-44	11-22
	25-39	Sandy Loam Loam Sandy Clay Loam Fine Sandy Loam Gravelly Sandy Loam	CL-ML SC-SM	A-2-4 A-4	0	0	80-100	70-100	40-95	20-75	21-44	4-22
	39-54	Bedrock	---	---	---	---	---	---	---	---	---	---
	54-58	Bedrock	---	---	---	---	---	---	---	---	---	---
Ochrepts	0-3	Channery Silt Loam	GC-GM ML SM	A-2-4 A-4	0	0-10	35-75	15-70	15-70	15-60	12-31	1-11
	3-16	Very Channery Very Fine Sandy Loam Very Channery Silt Loam	GC-GM GM	A-1-b A-2-4	0	5-50	10-50	10-40	10-40	10-35	7-31	NP-11
	16-41	Bedrock	---	---	---	---	---	---	---	---	---	---
	41-51	Bedrock	---	---	---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Appling	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
66D:												
Pacolet	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
66F:												
Udalfs	0-6	Sandy Loam Fine Sandy Loam	SC SC-SM	A-2-4 A-4	0	0	90-100	85-100	50-85	25-55	16-28	NP-10
	6-25	Clay Loam Sandy Clay Loam	CL SC	A-6	0	0	90-100	85-100	70-100	30-80	30-44	11-22
	25-39	Loam Gravelly Sandy Loam Sandy Clay Loam Sandy Loam Fine Sandy Loam	CL-ML SC-SM	A-2-4 A-4	0	0	80-100	70-100	40-95	20-75	21-44	4-22
	39-54	Bedrock	---	---	---	---	---	---	---	---	---	---
	54-58	Bedrock	---	---	---	---	---	---	---	---	---	---
Ochrepts	0-3	Channery Silt Loam	GC-GM ML	A-2-4 A-4	0	0-10	35-75	15-70	15-70	15-60	12-31	1-11
	3-16	Very Channery Silt Loam Very Channery Very Fine Sandy Loam	GC-GM GM	A-1-b A-2-4	0	5-50	10-50	10-40	10-40	10-35	7-31	NP-11
	16-41	Bedrock	---	---	---	---	---	---	---	---	---	---
	41-51	Bedrock	---	---	---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
66F:												
Appling	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
67:												
Udifluvents	0-10	Silt Loam	CL	A-4	0	0	95-100	95-100	86-100	70-90	21-34	4-14
			CL-ML									
	10-62	Fine Sandy Loam	CL	A-4	0	0	95-100	95-100	65-100	40-95	25-50	3-22
		Silty Clay Loam	ML	A-6								
		Loam	SC	A-7								
			SM									
68:												
Udorthents	---				---	---	---	---	---	---	---	---
69C:												



**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
69C:												
Udults	0-14	Loam	CL	A-2-4	0	0-8	85-100	80-100	48-95	24-75	15-25	NP-15
		Sandy Loam	ML	A-4								
			SC	A-6								
			SM									
	14-35	Loam	CL	A-2-4	0	0-3	75-100	65-100	52-100	23-80	20-50	8-30
		Clay Loam	SC	A-4								
		Sandy Clay Loam		A-6								
				A-7-6								
	35-60	Sandy Clay Loam	CH	A-4	0	0-8	75-100	65-100	52-100	23-95	25-55	8-30
		Clay	CL	A-6								
		Clay Loam	SC	A-7-6								
Goldsboro	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
69D:												
Udults	0-14	Sandy Loam	CL	A-2-4	0	0-8	85-100	80-100	48-95	24-75	15-25	NP-15
		Loam	ML	A-4								
			SC	A-6								
			SM									
	14-35	Sandy Clay Loam	CL	A-2-4	0	0-3	75-100	65-100	52-100	23-80	20-50	8-30
		Loam	SC	A-4								
		Clay Loam		A-6								
				A-7-6								
	35-60	Clay	CH	A-4	0	0-8	75-100	65-100	52-100	23-95	25-55	8-30
		Sandy Clay Loam	CL	A-6								
		Clay Loam	SC	A-7-6								
Goldsboro	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
69D:												
70B:												
Udults	0-14	Loam Sandy Loam	CL ML SC SM	A-2-4 A-4 A-6	0	0-8	85-100	80-100	48-95	24-75	15-25	NP-15
	14-35	Clay Loam Loam Sandy Clay Loam	CL SC	A-2-4 A-4 A-6 A-7-6	0	0-3	75-100	65-100	52-100	23-80	20-50	8-30
	35-60	Sandy Clay Loam Clay Clay Loam	CH CL SC	A-4 A-6 A-7-6	0	0-8	75-100	65-100	52-100	23-95	25-55	8-30
Ochrepts	0-4	Silt Loam Loam	CL CL-ML	A-4 A-6	0	0	100	100	85-95	60-75	21-41	6-19
	4-45	Sandy Clay Loam Fine Sandy Loam Clay Loam Loam	CL	A-6	0	0	100	100	70-100	40-80	28-45	12-25
	45-62	Fine Sandy Loam Loamy Fine Sand Sand Loamy Sand Sandy Loam	SC-SM SM	A-2 A-4	0	0	100	100	50-85	5-55	16-31	1-12
Fluvaquents	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---

70C:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
70C:												
Udults	0-14	Sandy Loam Loam	CL ML SC SM	A-2-4 A-4 A-6	0	0-8	85-100	80-100	48-95	24-75	15-25	NP-15
	14-35	Loam Clay Loam Sandy Clay Loam	CL SC	A-2-4 A-4 A-6 A-7-6	0	0-3	75-100	65-100	52-100	23-80	20-50	8-30
	35-60	Clay Sandy Clay Loam Clay Loam	CH CL SC	A-4 A-6 A-7-6	0	0-8	75-100	65-100	52-100	23-95	25-55	8-30
Ochrepts	0-4	Loam Silt Loam	CL CL-ML	A-4 A-6	0	0	100	100	85-95	60-75	21-41	6-19
	4-45	Sandy Clay Loam Loam Clay Loam Fine Sandy Loam	CL	A-6	0	0	100	100	70-100	40-80	28-45	12-25
	45-62	Loamy Fine Sand Sand Fine Sandy Loam Sandy Loam Loamy Sand	SC-SM SM	A-2 A-4	0	0	100	100	50-85	5-55	16-31	1-12
Goldsboro	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---

70D:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
70D:												
Udults	0-14	Loam Sandy Loam	CL ML SC SM	A-2-4 A-4 A-6	0	0-8	85-100	80-100	48-95	24-75	15-25	NP-15
	14-35	Clay Loam Sandy Clay Loam Loam	CL SC	A-2-4 A-4 A-6 A-7-6	0	0-3	75-100	65-100	52-100	23-80	20-50	8-30
	35-60	Clay Loam Sandy Clay Loam Clay	CH CL SC	A-4 A-6 A-7-6	0	0-8	75-100	65-100	52-100	23-95	25-55	8-30
Ochrepts	0-4	Loam Silt Loam	CL CL-ML	A-4 A-6	0	0	100	100	85-95	60-75	21-41	6-19
	4-45	Clay Loam Loam Sandy Clay Loam Fine Sandy Loam	CL	A-6	0	0	100	100	70-100	40-80	28-45	12-25
	45-62	Sandy Loam Fine Sandy Loam Loamy Sand Loamy Fine Sand Sand	SC-SM SM	A-2 A-4	0	0	100	100	50-85	5-55	16-31	1-12
Goldsboro	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---

70E:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
70E:												
Udults	0-14	Sandy Loam Loam	CL ML SC SM	A-2-4 A-4 A-6	0	0-8	85-100	80-100	48-95	24-75	15-25	NP-15
	14-35	Sandy Clay Loam Loam Clay Loam	CL SC	A-2-4 A-4 A-6 A-7-6	0	0-3	75-100	65-100	52-100	23-80	20-50	8-30
	35-60	Clay Sandy Clay Loam Clay Loam	CH CL SC	A-4 A-6 A-7-6	0	0-8	75-100	65-100	52-100	23-95	25-55	8-30
Ochrepts	0-4	Loam Silt Loam	CL CL-ML	A-4 A-6	0	0	100	100	85-95	60-75	21-41	6-19
	4-45	Sandy Clay Loam Fine Sandy Loam Loam Clay Loam	CL	A-6	0	0	100	100	70-100	40-80	28-45	12-25
	45-62	Loamy Fine Sand Sand Sandy Loam Loamy Sand Fine Sandy Loam	SC-SM SM	A-2 A-4	0	0	100	100	50-85	5-55	16-31	1-12
Goldsboro	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---

70F:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
70F:												
Udults	0-14	Loam Sandy Loam	CL ML SC SM	A-2-4 A-4 A-6	0	0-8	85-100	80-100	48-95	24-75	15-25	NP-15
	14-35	Sandy Clay Loam Loam Clay Loam	CL SC	A-2-4 A-4 A-6 A-7-6	0	0-3	75-100	65-100	52-100	23-80	20-50	8-30
	35-60	Clay Loam Sandy Clay Loam Clay	CH CL SC	A-4 A-6 A-7-6	0	0-8	75-100	65-100	52-100	23-95	25-55	8-30
Ochrepts	0-4	Silt Loam Loam	CL CL-ML	A-4 A-6	0	0	100	100	85-95	60-75	21-41	6-19
	4-45	Loam Fine Sandy Loam Clay Loam Sandy Clay Loam	CL	A-6	0	0	100	100	70-100	40-80	28-45	12-25
	45-62	Loamy Sand Sand Sandy Loam Fine Sandy Loam Loamy Fine Sand	SC-SM SM	A-2 A-4	0	0	100	100	50-85	5-55	16-31	1-12
Goldsboro	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---

71B:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
71B:												
Vance	0-12	Fine Sandy Loam	SC-SM	A-2	0	0-8	90-100	80-100	56-85	32-55	11-20	NP-2
			SM	A-4								
	12-48	Clay Loam	ML	A-4	0	0-8	90-100	80-100	72-100	56-95	31-49	5-12
		Sandy Clay		A-7								
		Clay										
	48-68	Loam	ML	A-4	0	---	90-100	80-100	68-100	48-80	14-34	NP-7
		Clay Loam										
Worsham	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Cecil	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Cullen	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
71B:												
Spotsylvania	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
71C2:												
Vance	0-12	Fine Sandy Loam	SC-SM	A-2	0	0-8	90-100	80-100	56-85	32-55	11-20	NP-2
			SM	A-4								
	12-48	Clay	ML	A-4	0	0-8	90-100	80-100	72-100	56-95	31-49	5-12
		Sandy Clay		A-7								
		Clay Loam										
	48-68	Clay Loam	ML	A-4	0	---	90-100	80-100	68-100	48-80	14-34	NP-7
		Loam										
Worsham	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Cecil	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Cullen	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---



# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
71C2:												
Norfolk	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
Pacolet	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Wedowee	---				---	---	---	---	---	---	---	---
72B:												
Varina	0-7	Gravelly Sandy Loam	SC-SM	A-1	0	0-8	60-95	55-93	33-65	16-37	9-20	NP-2
		Sandy Loam	SM	A-2								
	7-65	Clay Loam	GM	A-4	0	0-8	15-100	5-100	4-100	3-80	31-34	5-7
		Very Gravelly Clay Loam	ML									
		Gravelly Clay Loam	SM									
		Very Gravelly Sandy Clay Loam										

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
72B: Bourne	0-13	Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	80-100	80-100	56-85	32-55	10-25	NP-7
	13-24	Sandy Clay Loam	CL	A-2	0	0	80-100	80-100	64-100	28-80	25-32	7-14
	24-68	Clay Loam	SC	A-6								
		Sandy Loam	CL	A-2	0	0	80-100	80-100	48-90	24-55	20-30	4-14
		Sandy Clay Loam	SC	A-4								
			SC-SM	A-6								
	68-76	Sandy Clay	CL	A-2	0	0	80-100	80-100	48-100	24-95	10-61	3-27
		Clay	SC	A-4								
		Sandy Clay Loam	SM	A-6								
		Loam		A-7								
		Clay Loam										
		Sandy Loam										
Abell	---				---	---	---	---	---	---	---	---
Appling	---				---	---	---	---	---	---	---	---
Cecil	---				---	---	---	---	---	---	---	---
Duplin	---				---	---	---	---	---	---	---	---
Edgehill variant	---				---	---	---	---	---	---	---	---
Faceville	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Orangeburg	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
72B:												
Spotsylvania	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
73:												
Wahee	0-8	Loam	CL	A-4	0	0	100	100	85-95	60-75	21-36	4-16
			CL-ML									
	8-65	Silty Clay Loam	CH	A-7	0	0	100	100	90-100	75-95	47-66	22-39
		Clay	CL									
		Silty Clay										
Abell	---				---	---	---	---	---	---	---	---
Altavista	---				---	---	---	---	---	---	---	---
Dogue	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Forestdale	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
Fork	---				---	---	---	---	---	---	---	---

74B2:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
74B2:												
Wedowee	0-5	Fine Sandy Loam	SC-SM	A-4	0	0	95-100	90-100	63-85	36-55	9-20	NP-2
	5-33	Clay Loam	SM	A-4	0	0	98-100	95-100	86-100	66-95	27-49	4-12
		Sandy Clay		A-6								
	33-60	Clay										
		Loam	ML	A-4	0	0	98-100	95-100	81-100	57-80	16-27	NP-4
		Sandy Clay Loam	SC-SM									
		Clay Loam										
		Sandy Loam										
Iredell	---				---	---	---	---	---	---	---	---
Norfolk	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Cecil	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Turbeville	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
74B2:												
Varina	---				---	---	---	---	---	---	---	---
74C2:												
Wedowee	0-5	Fine Sandy Loam	SC-SM	A-4	0	0	95-100	90-100	63-85	36-55	9-20	NP-2
	5-33	Clay Clay Loam Sandy Clay	ML	A-4 A-6	0	0	98-100	95-100	86-100	66-95	27-49	4-12
	33-60	Sandy Loam Clay Loam Sandy Clay Loam Loam	ML SC-SM	A-4	0	0	98-100	95-100	81-100	57-80	16-27	NP-4
Worsham	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Bourne	---				---	---	---	---	---	---	---	---
Cecil	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
74C2:												
Orange	---				---	---	---	---	---	---	---	---
Turbeville	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Varina	---				---	---	---	---	---	---	---	---
74D2:												
Wedowee	0-5	Fine Sandy Loam	SC-SM	A-4	0	0	95-100	90-100	63-85	36-55	9-20	NP-2
	5-33	Clay Clay Loam Sandy Clay	ML	A-4 A-6	0	0	98-100	95-100	86-100	66-95	27-49	4-12
	33-60	Loam Sandy Loam Clay Loam Sandy Clay Loam	ML SC-SM	A-4	0	0	98-100	95-100	81-100	57-80	16-27	NP-4
Fluvaquents	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Ashlar	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
74D2:												
75C3:												
Wedowee	0-5	Clay Loam	ML SC-SM	A-4	0	0	95-100	90-100	81-100	63-80	25-34	3-7
	5-33	Sandy Clay Clay Loam Clay	ML	A-4 A-6	0	0	98-100	95-100	86-100	66-95	27-49	4-12
	33-60	Sandy Clay Loam Loam Sandy Loam Clay Loam	ML SC-SM	A-4	0	0	98-100	95-100	81-100	57-80	16-27	NP-4
Abell	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
Spotsylvania	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---

75D3:

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
75D3:												
Wedowee	0-5	Clay Loam	ML SC-SM	A-4	0	0	95-100	90-100	81-100	63-80	25-34	3-7
	5-33	Sandy Clay Clay Clay Loam	ML	A-4 A-6	0	0	98-100	95-100	86-100	66-95	27-49	4-12
	33-60	Sandy Loam Loam Sandy Clay Loam Clay Loam	ML SC-SM	A-4	0	0	98-100	95-100	81-100	57-80	16-27	NP-4
Abell	---				---	---	---	---	---	---	---	---
Ashlar	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
76D:												
Wedowee	0-5	Fine Sandy Loam	SC-SM SM	A-4	0	0	95-100	90-100	63-85	36-55	9-20	NP-2
	5-33	Clay Clay Loam Sandy Clay	ML	A-4 A-6	0	0	98-100	95-100	86-100	66-95	27-49	4-12
	33-60	Loam Sandy Loam Sandy Clay Loam Clay Loam	ML SC-SM	A-4	0	0	98-100	95-100	81-100	57-80	16-27	NP-4



**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
76D:												
Ashlar	0-11	Sandy Loam	SC-SM SM	A-1 A-2 A-4	0	0-15	70-100	63-100	37-70	18-40	9-16	NP
	11-30	Gravelly Sandy Loam Sandy Loam	GC-GM GM SC-SM SM	A-1 A-2 A-4	0	0-15	70-100	63-100	37-70	18-40	9-16	NP
	30-34	Bedrock	---	---	---	---	---	---	---	---	---	---
Edgehill variant	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Vance	---				---	---	---	---	---	---	---	---
77:												
Wehadkee	0-8	Loam	ML SC-SM	A-4	0	0	100	95-100	81-95	57-75	10-30	NP-10
	8-79	Loam Sandy Clay Loam Clay Loam	CL CL-ML SC	A-4 A-6	0	0-5	100	95-100	76-95	33-75	23-31	6-14
Forestdale	---				---	---	---	---	---	---	---	---
Goldsboro	---				---	---	---	---	---	---	---	---
Worsham	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---
Altavista	---				---	---	---	---	---	---	---	---

**Table H. - Engineering Index Properties - Continued**

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
77:												
Augusta	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
Colfax	---				---	---	---	---	---	---	---	---
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Pamunkey	---				---	---	---	---	---	---	---	---
Wahee	---				---	---	---	---	---	---	---	---
78:												
Worsham	0-11	Fine Sandy Loam	CL ML SC SM	A-2 A-4	0	0-8	90-100	85-100	60-85	34-55	21-30	NP-11
	11-60	Clay Sandy Clay Sandy Clay Loam	CH CL SC	A-2 A-7	0	0-8	90-100	85-100	68-100	30-95	39-62	10-36
Fluvaquents	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
Iredell	---				---	---	---	---	---	---	---	---
Abell	---				---	---	---	---	---	---	---	---

# Table H. - Engineering Index Properties - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
78:												
Colfax	---				---	---	---	---	---	---	---	---
Orange	---				---	---	---	---	---	---	---	---
W:												
Water	---				---	---	---	---	---	---	---	---